

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants:	Chandy et al.	Art Unit:	Not Yet Assigned
Parent Serial No.	09/565,590	Examiner:	Not Yet Assigned
Parent Filing Date	May 4, 2000		
Serial No.:	Not Yet Assigned		
Filed:	November 24, 2003		
Title:	hKCa3/KCNN3 SMALL CONDUCTANCE CALCIUM ACTIVATED POTASSIUM CHANNEL: A DIAGNOSTIC MARKER AND THERAPEUTIC TARGET		

**Mail Stop PATENT APPLICATION**

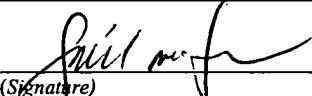
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 § CFR 1.97, Applicants bring to the Examiner's attention the related parent patent application, U.S. Serial No. 09/565,590, filed May 4, 2000, which is relied upon for an earlier filing date under 35 USC § 120. For the convenience of the Examiner, copies of the PTO Forms 892 and 1449 are enclosed.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

<b>CERTIFICATION UNDER 37 CFR §1.10</b> "EXPRESS MAIL" Mailing Label Number: <b>EV 318 740 076 US</b> Date of Deposit: <b>November 24, 2003</b>	
I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" with sufficient postage on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
SAUL SOLANO (Name of Person Mailing Paper)	
 (Signature)	<b>November 24, 2003</b> (Date)

In re Application of:  
Chandy et al.  
Application No.: Not Yet Assigned  
Filed: November 24, 2003  
Page 2

PATENT  
Attorney Docket No.: UCI1120-4

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement, because it is being filed prior to the receipt of a first office action on the merits of the above-captioned application. However, if any fee is required, authorization is hereby given to charge any fees associated with the filings submitted herewith, or credit any overpayment to Deposit Account No. 50-1355. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: November 24, 2003



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San Diego, CA 92121-2133

SUBSTITUTE FORM PTO-1449  
(MODIFIED)

DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET  
07306/0140C

SERIAL NO.  
09/115,446

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use several sheets if necessary)

APPLICANT:  
K. George Chandy et al.

FILING DATE  
July 14, 1998

GROUP

(37 CFR 1.98(b))

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

530 U.S. PTO  
09/565590  
FILING DATE  
07/14/98

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

**OTHER DOCUMENTS (including Author, Title, Date, Place of Publication)**

AK	AQ	Georges Imbert, Cloning of the gene for spinocerebellar ataxia 2 reveals a locus with high sensitivity to expanded CAG/glutamine repeats, November 1996, Nature Genetics volume 14 no.3, pp. 285-291.
AR	AR	M. Kohler, Small-Conductance, Calcium-Activated Potassium Channels from Mammalian Brain, September 1996, Science, volume 273 pp. 1625-1764.
AS	AS	William J. Joiner, hSK4, a member of a novel subfamily of calcium-activated potassium channels, September 1997, Neurobiology, volume 94 pp. 11013-11018.

EXAMINER

Anur Kr. Chakrabarti

DATE CONSIDERED

8/1/00

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449  
(MODIFIED)DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKE  
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## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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							YES	NO
	AL							
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## OTHER DOCUMENTS (including Author, Title, Date, Place of Publication)

AC	AQ	Takahiro M. Ishii, A human intermediate conductance calcium-activated potassium channel, October 1997, Neurobiology, volume 94 pp. 11651-11656.
✓	AR	Gillian P. Bates, Transgenic mouse models of neurodegenerative disease caused by CAG/polyglutamine expansions, November 1997, Molecular Medicine Today.
✓	AS	P Sanjeeva Reddy, The complex pathology of trinucleotide repeats, Nucleus and gene expression, pp. 364-372.

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Annu Kr. Chakrabarti

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8/1/00

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## OTHER DOCUMENTS (including Author, Title, Date, Place of Publication)

AC	AQ	T Bowen, Further support for an association between a polymorphic CAG repeat in the hKCa3 gene and schizophrenia, 1998, Molecular Psychiatry.
	AR	
	AS	
EXAMINER	Annu Kr. Chakrabarti	
	DATE CONSIDERED	8/1/00

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## OTHER DOCUMENTS (including Author, Title, Date, Place of Publication)

HC	AQ	KOHLER et al., Small Conductance, Calcium-Activated Potassium Channels from Mammalian Brain. Science. 9/20/96, Vol. 273, pages 1709-1714, especially figures 1A and 1C on page 1710						
	AR							
	AS							

EXAMINER

Annu kr. Chakrabarti

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8/1/00

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# **Notice of References Cited**

Application No.  
09/565,590

Applicant(s)  
Chandy et al.

Examiner  
Arun Chakrabarti

Group Art Unit  
1655

Page 1 of 1

## **U.S. PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	5,776,734	7/1998	Kaczorowski et al.	435	69.1
B					
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## **FOREIGN PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N						
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Q						
R						
S						
T						

## **NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U	Imbert et al., "Cloning of the gene for the Spinoencebollar, Nature Genetics, Vol. 14, pages 258-291.	11/1996
V		
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**Notice of References Cited**Application No.  
**09/115,446**Applicant(s)  
**Chandy et al.**Examiner  
**Arun Chakrabarti**Group Art Unit  
**1655**

Page 1 of 1

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**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N	WO 98/11139	3/19/98	PCT	Adelman et al.	435	69.1
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	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U	Imbert et al., "Cloning of the gene for spinocerebellar ataxia 2 reveals a locus with high sensitivity to expanded CAG/glutamine repeats", Nature Genetics, Vol. 14, pages 285-291.	11/96
V	Stratagene catalog, page 39	1988
W		
X		



<b>Notice of References Cited</b>	<b>Applicant/Patent</b> Chandy et al.	<b>Application/Control No.</b> 09/565,590	
	<b>Examiner</b> Arun Chakrabarti	<b>Art Unit</b> 1655	<b>Page 1 of 1</b>

#### U.S. PATENT DOCUMENTS

	<b>Document Number</b> <small>Country Code-Number-Kind Code</small>	<b>Date</b> <small>MM-YYYY<sup>1</sup></small>	<b>Name</b>	<b>Classification<sup>2</sup></b>	
A	5,637,470	6/1997	Kaczorowski	435	7.21
B					
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#### FOREIGN PATENT DOCUMENTS

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N	WO 98/11139	3/1998	PCT	Adelman et al	435	69.1
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	<b>Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages</b>				
U	Imbert et al., "Cloning of the gene for spinocerebellar ataxia 2 reveals a locus with high sensitivity to expanded CAG/glutamine repeats", <i>Nature Genetics</i> , (1996), Vol. 14, pages 285-291.				
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<sup>1</sup> A copy of this reference is not being furnished with this Office action. See MPEP § 707.05(a).

<sup>1</sup> Dates in MM-YYYY format are publication dates.

<sup>2</sup> Classifications may be U.S. or foreign.